

IN THE SPECIFICATION

Please amend the specification as follows:

Delete the paragraph on page 1, between lines 1-2 of the specification.

Delete the paragraph on page 1, between lines 3-4 of the specification.

Replace the paragraph on page 1, between lines 5-6 of the specification with the following:

Method—The invention relates to a processing system and method  
for exchanging data between a first and a second functional unit,  
comprising the following steps:

Delete the paragraph on page 3, between lines 1-4 of the specification.

Replace the paragraph on page 3, between lines 13-17 of the

specification with the following:

In ~~the another embodiment of claim 2,~~ information indicative for the filling degree of a buffer for a particular communication thread indicates the initiator how long data transmission can go on before a buffer overflow occurs. This enables the first functional unit (I) to anticipate a termination of the possibility of exchanging data for that communication thread.

Replace the paragraph on page 3, between lines 18-24 of the specification with the following:

In ~~another embodiment of claim 3,~~ the information indicative for an expected waiting time enables the first functional unit (I) to anticipate when new data will be provided or when new data can be accepted. The second functional unit may for example need a relatively long processing time to calculate a result vector from two input vectors. It may indicate to a first functional unit to which the result vector will be transmitted an indication for the remaining processing time. A scheduler in that first functional unit may then schedule a data transmission at a time that the result vector is expected to be ready.